Professional Requirements Management with JIRA

Ed Scharrer
ease solutions

Gerald Heller
Software.Process.Management
• Turnkey IT service & solutions provider with focus in the ALM domain
• Strong alliances with key technology partners like Atlassian
• Advanced software solutions for the product and application lifecycle
• Global setup with offices in Germany, Singapore, Philippines and Thailand
• http://easesolutions.com
• Please visit us at the REConf 2016 - Booth GS4
Ed Scharrer – ease solutions

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Delivering IT solutions that help streamline your business.

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We help organizations to optimally align their software processes with their business goals
Software Product Management, Requirements Management & Agile Development
Professional Requirements Management in the Application Lifecycle
Requirements Management in the Application Lifecycle

- Define Business Goals and Context
- Develop Requirements Specification
- Develop Architectural Design
- Develop Detailed Design
- Coding and Testing (Developer Testing)
- Conduct Component Test
- Conduct System Test
- Conduct Acceptance Test
- Deliver and Deploy System
Process Is about Collaboration

Collaborate across the product/application lifecycle and others...
What Requirements Managers Need

Define & modify requirements

**Structure & organize requirements**

Visualize requirements

Find & access requirements

**Track requirements status & quality**

Work concurrently as a team on the same requirements

Comment, discuss & decide collaboratively on requirements

**Manage dependencies between requirements** & to other lifecycle artifacts
Collaborate with Architects

Benefit to Architects

Have clear reference point for architectural decisions

Document problem/solution fit explicitly

<table>
<thead>
<tr>
<th>Requirements Manager</th>
<th>Problem Requirement</th>
<th>Solution Requirement</th>
<th>Architecture</th>
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<tbody>
<tr>
<td>negotiate problem/solution fit</td>
<td>implement</td>
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<td>clarify requirement</td>
<td>Architect</td>
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Collaborate with Developers

Benefit to Developers

Understand requirements & development tasks more easily

Supply code artifacts with reference to requirements

Conduct change more easily

Clarify requirement

Understand

Implement

Relate back (traceability)
Collaborate with Test Managers

**Benefit to Test Managers**

- Start test case definition, test planning, and preparation early
- Ensure completeness and quality of test cases
- Set priorities in testing according to relevant business requirements
- Monitor and control progress of testing and product quality

**Diagram:**

- Problem Requirement
- Test Case
- Test Result
- Requirements Manager
- Test Manager

Relationships:
- Derive
- Conduct test
- Relate forward
- Clarify requirement
- Understand
- (requirements-related test coverage)
Collaborate with Project Managers

Benefit to Project Managers

- Possess solid foundation for project planning
- Monitor project status and progress with regard to customer and business requirements
- Control project flexibly and be able to re-plan fast

![Diagram showing collaboration between Requirements Manager and Project Manager with Project Plan & Estimation and Project Status & Progress nodes. Requirements Manager provides data to Project Manager. Project status is detailed by requirement in real-time.]
Benefits of Requirements Management

**Business Benefit**

- **Stakeholders**
- **Product Quality**
- **Development Productivity**
- **Flexibility**
- **Process Control**

**Benefit to Stakeholders**

- Requirements Quality
- Development Status
- Collaborative Decision Making
- Task Planning
- Test Planning

- Requirements Management Productivity
- Process Control
- Documentation
- Change Impact Analysis
- Control of Testing
Tool Support for Professional Requirements Management
Atlassian

- A leader in Gartner's 2015 Magic Quadrant for Application Development Life Cycle Management
- Software company founded in 2002 and currently serving more than 15,000 customers
- Products: JIRA, Confluence, Bitbucket, HipChat and more

Source: Gartner (February 2015)
JIRA Software

The #1 software development tool used by agile teams

Plan
Create user stories and issues, plan sprints, and distribute tasks across your software team.

Track
Prioritize and discuss your team's work in full context with complete visibility.
Release

Ship with confidence and sanity knowing the information you have is always current.

Report

Improve team performance based on real-time, visual data you can use.
Different organizations use JIRA to track different kinds of issues. Depending on how your organization is using JIRA, an issue could represent a software bug, a project task, a helpdesk ticket, or in our case a requirement.
While JIRA has been developed primarily as an issue and project tracker out of the box, you can use JIRA for requirements management in conjunction with Confluence. Confluence is a leading collaboration and documentation solution for software teams.
But what about features like …

JIRA & Confluence can provide you with basic features of a classical requirements management solution, yet following key features are missing:

- Requirement hierarchies
- Requirement reuse
- Round-trip (Import/Export)
- Full and easy to use traceability
- Change impact analysis
- Baseline & Revision comparing
- Role specific views & access rights
- Suspect logic
R₄J – Requirements Management for JIRA
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R₄J – Requirements Management for JIRA is a native add-on to JIRA, and extends JIRA’s functionality to become an enterprise grade requirements management solution.

R₄J – Requirement Hierarchies & Structuring

Increase Productivity
Structure your requirements professionally, e.g. User Requirements, System Requirements

Increase Quality
Maintain your requirements easily and have a holistic view
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R₄J – Traceability & Coverage View

Requirements Quality
Addresses compliancy

Maintain Quality
Maintain requirements quality even in complex settings
R₄J – Requirements Management for JIRA

Use case for Agile Development Process
R₄J – Requirements Management for JIRA

Use case for Agile Development Process
**R₄J – Requirements Management for JIRA**

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**R₄J – ALM-Wide Monitoring**

**Process Control**

Define your dashboards to view all relevant information, and control your project optimally.

**Real Time Data – throughout the lifecycle**

React instantly on your ever changing customer requirements and increase customer satisfaction.
R4J Features Provide Business Benefit

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<th>Customer Satisfaction</th>
<th>Product Quality</th>
<th>Development Productivity</th>
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<tr>
<td>Process Control</td>
<td>Development Flexibility</td>
<td>Lead Time</td>
<td>Profit</td>
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<td>Custom requirements hierarchies</td>
<td>Requirements change management</td>
<td>Reuse requirements across projects</td>
<td>Round-trip export/import</td>
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Summary

Key benefits of R₄J – Requirements for JIRA

• R₄J brings advanced requirements management to your business – easily and effectively
• R₄J extends the functionality of JIRA to become an enterprise grade RM solution
• Fully scalable (High Availability, Load Balancing with JIRA Data Center Edition)
• Simple installation, deployment, and maintenance
• Consolidation of tool environment
• Very low cost of ownership
• Optimum usability
Thank you!